Defense Distribution Depot San Joaquin, Tracy Facility — NPL

Size: 908 acres
Mission: Store and distribute medical, textile, food, electronic, industrial, construction, chemical, and other supplies and equipment
HRS Score: 37.16; placed on NPL in August 1990
IAG Status: Federal Facility Agreement signed in 1991
Contaminants: Chlorinated solvents, heavy metals, pesticides, petroleum/oil/lubricants, and VOCs
Media Affected: Groundwater and soil
Funding to Date: $68.0 million
Estimated Cost to Completion (Completion Year): $28.0 million (FY2015)
Final Remedy in Place or Response Complete Date for All Sites: FY2001

Tracy, California

Restoration Background

Beginning in FY80, environmental studies identified 32 sites at this installation, including burn and disposal pits, hazardous waste storage sites, and other areas of contamination. Newly discovered sites and underground storage tanks (USTs) brought the total site count to 65. Contamination has been identified in on-site soil and in on-site and off-site groundwater.

In FY86, a Remedial Investigation and Feasibility Study (RI/FS) was initiated to address the groundwater and soil contamination. The groundwater investigation was placed on a faster track because of the potential threat to area drinking water.

Between FY88 and FY91, 32 USTs were removed, along with 1,060 cubic yards of contaminated soil. In FY92, bottled drinking water was supplied to two nearby farm residences where wells were threatened by the groundwater plume. The depot also installed a pump-and-treat system consisting of an air stripping plant with carbon absorption, five extraction wells, and three injection wells.

A Record of Decision (ROD) for the remedy of groundwater contamination was signed in early FY93 and modified in FY95 to allow natural attenuation of a portion of the contaminant plume outside the installation.

In FY95, a pilot low-flow groundwater-monitoring project was completed. An environmental geographic information system (GIS) was established, which facilitates RI/FS and Remedial Design and Remedial Action (RD/RA) work. The installation removed more than 1,000 cubic yards of contaminated soil at the child-care facility. The installation-wide risk assessment was completed, and the Proposed Plan was prepared and provided to the public for comment.

In FY96, an Engineering Evaluation and Cost Analysis and an Action Memorandum for removal of pesticide-contaminated soil from the former industrial pond and pipeline sites were completed and concurred in by the regulatory agencies. Design work for this Removal Action and installation of extraction wells and infiltration galleries for the Operable Unit (OU) 1 groundwater-air stripping pump-and-treat system were initiated.

In FY97, the industrial pond soil Removal Action design was completed and the implementation contract awarded. Work began on the pesticide-contaminated soil Removal Action. The final sitewide RI/FS was completed. The installation also prepared the Proposed Plan for sitewide remedies, and the draft sitewide OU2 ROD was prepared and submitted. The contract for constructing the OU1 pump-and-treat system was awarded. Also, contaminated-soil Removal Actions were performed at five former UST sites, and approximately 376 cubic yards of contaminated soil was removed. As of FY97, 16 sites had been closed, and 15 required RAor further characterization to achieve closure.

FY98 Restoration Progress

The sitewide comprehensive ROD was signed, the industrial pond soil Removal Action was completed, the RD for the remaining sites was prepared, and the contract for cleanup of the remaining sites was awarded. Construction of the new OU1 air stripper, extraction wells, and installation galleries continued. The full-scale low-flow groundwater-monitoring system was installed and turned on.

Plan of Action

- Install wet season controls on stormwater pond in FY99
- Complete installation and start-up of OU1 groundwater treatment system, Air-stripping Plant Number 2, and associated extraction and disposal systems in FY99
- Per OU2 ROD, design and install OU2 soil vapor extraction systems at four trichloroethene and tetrachloroethene sites in FY99 and FY00
- Per OU2 ROD, perform OU2 ROD soil Removal Actions at five sites in FY99 and FY00
- Implement institutional controls at several sites per OU2 ROD in FY99 and FY00
- Install bioventing system at one former UST site to test the feasibility of using this technology at Tracy Facility in FY99
- Continue groundwater treatment and monitoring program in FY99

FY99 Funding by Phase and Relative Risk